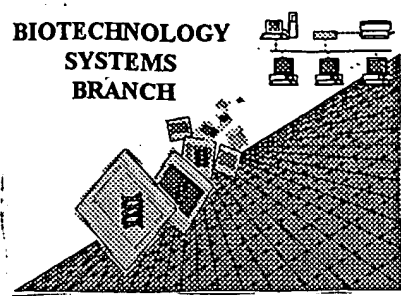


order

SDCO  
#24  
BC

## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/913,467  
Source: 01PE  
Date Processed by STIC: 12/17/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.  
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:  
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,  
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY  
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.  
PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)  
PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:  
<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by the treatment given to all mail coming via the Brentwood Mail Facility.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. EFS-Bio (<http://www.uspto.gov/efb/efs/downloads/documents.htm>) , EFS Submission User Manual - ePAVE)
2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name,  
1911 South Clark Street, Crystal Mall One, Sequence Information, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, 2011 South Clark Place, Customer Window, Box Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, Virginia 22202
4. Federal Express Delivery, 2011 South Clark Street, Crystal Plaza 2, Room 1B03-Mailroom, Box Sequence, Arlington, VA 22202

**ERROR DETECTED****SUGGESTED CORRECTION**SERIAL NUMBER: 09/913,467

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFT

- 1      Wrapped Nucleics  
    Wrapped Aminos      The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length      The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering      The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII      The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length      Sequence(s)            contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)           . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)      Sequence(s)            missing. If intentional, please insert the following lines for each skipped sequence:  
    (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    (i)      SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
    (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    This sequence is intentionally skipped  
  
    Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)      Sequence(s)            missing. If intentional, please insert the following lines for each skipped sequence.  
    <210> sequence id number  
    <400> sequence id number  
    000
- 9      Use of n's or Xaa's  
    (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
    Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
    In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response      Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or Artificial Sequence
- 11      Use of <220>  
    →      Sequence(s)            missing the <220> "Feature" and associated numeric identifiers and responses.  
    Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
    (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n      n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

OIRP

## RAW SEQUENCE LISTING

DATE: 12/17/2001

PATENT APPLICATION: US/09/913,467

TIME: 15:01:26

Input Set : A:\PA31187US sequence listing.txt

Output Set: N:\CRF3\12172001\I913467.raw

1-2,45  
Does Not Comply  
Corrected Diskette Needed

3 <110> APPLICANT: Sebald, Walter  
 5 <120> TITLE OF INVENTION: Polypeptide Variants With Increased Heparin-Binding Ability  
 7 <130> FILE REFERENCE: PA31187-01996/GRI  
 9 <140> CURRENT APPLICATION NUMBER: US 09/913,467  
 10 <141> CURRENT FILING DATE: 2000-01-27  
 12 <150> PRIOR APPLICATION NUMBER: DE 199 06 096.7  
 13 <151> PRIOR FILING DATE: 1999-02-13  
 15 <160> NUMBER OF SEQ ID NOS: 12  
 17 <170> SOFTWARE: PatentIn Ver. 2.1  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 6  
 21 <212> TYPE: PRT  
 22 <213> ORGANISM: Artificial sequence  
 24 <220> FEATURE:  
 25 <221> NAME/KEY: MUTAGEN  
 26 <222> LOCATION: (1)  
 27 <223> OTHER INFORMATION: K, R or H  
 29 <220> FEATURE:  
 30 <221> NAME/KEY: MUTAGEN  
 31 <222> LOCATION: (2)  
 32 <223> OTHER INFORMATION: K, R or H  
 34 <220> FEATURE:  
 35 <221> NAME/KEY: MUTAGEN  
 36 <222> LOCATION: (3)  
 37 <223> OTHER INFORMATION: K, R, H or no amino acid  
 39 <220> FEATURE:  
 40 <221> NAME/KEY: MUTAGEN  
 41 <222> LOCATION: (4)  
 42 <223> OTHER INFORMATION: not K, R, H, but any other amino acid  
 44 <220> FEATURE:  
 45 <221> NAME/KEY: MUTAGEN  
 46 <222> LOCATION: (5)  
 47 <223> OTHER INFORMATION: not K, R, H, but any other or no  
 48 amino acid  
 50 <220> FEATURE:  
 51 <221> NAME/KEY: MUTAGEN  
 52 <222> LOCATION: (6)  
 53 <223> OTHER INFORMATION: not K, R, H, but any other or no  
 54 amino acid  
 56 <220> FEATURE:  
 57 <223> OTHER INFORMATION: description artificial sequence: artificial sequence  
 60 <400> SEQUENCE: 1  
 61 Xaa Xaa Xaa Xaa Xaa Xaa  
 62 1 5  
 65 <210> SEQ ID NO: 2  
 66 <211> LENGTH: 6  
 67 <212> TYPE: PRT

insufficient - give source  
 of genetic  
 material  
 (see item 11  
 on Ena  
 summary  
 sheet)

## RAW SEQUENCE LISTING

DATE: 12/17/2001

PATENT APPLICATION: US/09/913,467

TIME: 15:01:26

Input Set : A:\PA31187US sequence listing.txt

Output Set: N:\CRF3\12172001\I913467.raw

68 <213> ORGANISM: Artificial sequence

70 <220> FEATURE:

71 <223> OTHER INFORMATION: description artificial sequence: *same error* (artificial sequence)

74 <220> FEATURE:

75 <221> NAME/KEY: MUTAGEN

76 <222> LOCATION: (1)

77 <223> OTHER INFORMATION: K, R or H

79 <220> FEATURE:

80 <221> NAME/KEY: MUTAGEN

81 <222> LOCATION: (2)

82 <223> OTHER INFORMATION: not K, R, H, but any other amino acid

84 <220> FEATURE:

85 <221> NAME/KEY: MUTAGEN

86 <222> LOCATION: (3)

87 <223> OTHER INFORMATION: K, R or H

89 <220> FEATURE:

90 <221> NAME/KEY: MUTAGEN

91 <222> LOCATION: (4)

92 <223> OTHER INFORMATION: not K, R, H, but any other amino acid

94 <220> FEATURE:

95 <221> NAME/KEY: MUTAGEN

96 <222> LOCATION: (5)

97 <223> OTHER INFORMATION: not K, R, H, but any other or no amino acid

99 <220> FEATURE:

100 <221> NAME/KEY: MUTAGEN

101 <222> LOCATION: (6)

102 <223> OTHER INFORMATION: not K, R, H, but any other or no amino acid

OK 104 <400> SEQUENCE: 2

105 Xaa Xaa Xaa Xaa Xaa Xaa

106 1 5

110 <210> SEQ ID NO: 3

111 <211> LENGTH: 4

112 <212> TYPE: PRT

113 <213> ORGANISM: Artificial sequence

115 <220> FEATURE:

116 <223> OTHER INFORMATION: description artificial sequence:

117 heparin-binding sequence

119 <400> SEQUENCE: 3

120 Arg Lys Arg Ala

121 1

124 <210> SEQ ID NO: 4

125 <211> LENGTH: 8

126 <212> TYPE: PRT

127 <213> ORGANISM: Artificial sequence

129 <220> FEATURE:

130 <223> OTHER INFORMATION: description artificial sequence:

131 heparin-binding sequence

133 <400> SEQUENCE: 4

134 Arg Lys Arg Ala Lys His Lys Gln

## RAW SEQUENCE LISTING

DATE: 12/17/2001

PATENT APPLICATION: US/09/913,467

TIME: 15:01:26

Input Set : A:\PA31187US sequence listing.txt

Output Set: N:\CRF3\12172001\I913467.raw

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135      1              5
138 <210> SEQ ID NO: 5
139 <211> LENGTH: 120
140 <212> TYPE: PRT
141 <213> ORGANISM: Artificial sequence
143 <220> FEATURE:
144 <223> OTHER INFORMATION: description artificial sequence: T3
146 <400> SEQUENCE: 5
147 Met Ala Gln Ala Lys His Lys Gln Arg Lys Arg Ala Arg Lys Arg Leu
148      1              5              10              15
150 Lys Ser Ser Cys Lys Arg His Pro Leu Tyr Val Asp Phe Ser Asp Val
151      20              25              30
153 Gly Trp Asn Asp Trp Ile Val Ala Pro Pro Gly Tyr His Ala Phe Tyr
154      35              40              45
156 Cys His Gly Glu Cys Pro Phe Pro Leu Ala Asp His Leu Asn Ser Thr
157      50              55              60
159 Asn His Ala Ile Val Gln Thr Leu Val Asn Ser Val Asn Ser Lys Ile
160      65              70              75              80
162 Pro Lys Ala Cys Cys Val Pro Thr Glu Leu Ser Ala Ile Ser Met Leu
163      85              90              95
165 Tyr Leu Asp Glu Asn Glu Lys Val Val Leu Lys Asn Tyr Gln Asp Met
166      100             105             110
168 Val Val Glu Gly Cys Gly Cys Arg
169      115             120
172 <210> SEQ ID NO: 6
173 <211> LENGTH: 124
174 <212> TYPE: PRT
175 <213> ORGANISM: Artificial sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: description artificial sequence:T4
180 <400> SEQUENCE: 6
181 Met Ala Gln Ala Lys His Lys Gln Arg Lys Arg Ala Lys His Lys Gln
182      1              5              10              15
184 Arg Lys Arg Leu Lys Ser Ser Cys Lys Arg His Pro Leu Tyr Val Asp
185      20              25              30
187 Phe Ser Asp Val Gly Trp Asn Asp Trp Ile Val Ala Pro Pro Gly Tyr
188      35              40              45
190 His Ala Phe Tyr Cys His Gly Glu Cys Pro Phe Pro Leu Ala Asp His
191      50              55              60
193 Leu Asn Ser Thr Asn His Ala Ile Val Gln Thr Leu Val Asn Ser Val
194      65              70              75              80
196 Asn Ser Lys Ile Pro Lys Ala Cys Cys Val Pro Thr Glu Leu Ser Ala
197      85              90              95
199 Ile Ser Met Leu Tyr Leu Asp Glu Asn Glu Lys Val Val Leu Lys Asn
200      100             105             110
202 Tyr Gln Asp Met Val Val Glu Gly Cys Gly Cys Arg
203      115             120
206 <210> SEQ ID NO: 7
207 <211> LENGTH: 374

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## RAW SEQUENCE LISTING

DATE: 12/17/2001

PATENT APPLICATION: US/09/913,467

TIME: 15:01:26

Input Set : A:\PA31187US sequence listing.txt

Output Set: N:\CRF3\12172001\I913467.raw

208 <212> TYPE: DNA  
209 <213> ORGANISM: Artificial sequence  
211 <220> FEATURE:  
212 <223> OTHER INFORMATION: description artificial sequence:T3  
213 (nucleic acid sequence)  
215 <400> SEQUENCE: 7  
216 ccatggctca agccaaacac aaacagcgga aacgcgctcg taaacgtctt aagtcagct 60  
217 gtaagagaca ccctttgtac gtggacttca gtgacgtggg gtggaatgac tggattgtgg 120  
218 ctcccccggt gtatcacgcc ttttactgac acggagaatg cccttttcct ctggctgac 180  
219 atctgaactc cactaatcat gccattgttc agacgttggg caactctgtt aactctaaga 240  
220 ttcctaaggc atgctgtgtc ccgacagaac tcagtgtctat ctgatgctg taccttgacg 300  
221 agaatgaaaa ggttgtatta aagaactatc aggacatggg tgtggagggt tgtgggtgtc 360  
222 gctagtaagg atcc 374  
224 <210> SEQ ID NO: 8  
225 <211> LENGTH: 386  
226 <212> TYPE: DNA  
227 <213> ORGANISM: Artificial sequence  
229 <220> FEATURE:  
230 <223> OTHER INFORMATION: description artificial sequence: T4  
231 (nucleic acid sequence)  
233 <400> SEQUENCE: 8  
234 ccatggctca agccaaacac aaacagcgga aacgcgctaa gcataagcaa cgtaagcgtc 60  
235 ttaagtccag ctgtaagaga caccctttgt acgtggactt cagtgcagtg ggggtggaatg 120  
236 actggattgt ggctcccccg gggatcacg ccttttactg ccacggagaa tgcccttttc 180  
237 ctctggctga tcatctgaac tccactaatc atgccattgt tcagacgttg gtcaactctg 240  
238 ttaactctaa gattcctaag gcatgctgtg tcccgacaga actcagtgt atctcgatgc 300  
239 tgtaccttga cgagaatgaa aaggttgtat taaagaacta tcaggacatg gttgtggagg 360  
240 gttgtgggtg tcgctagtaa ggatcc 386  
242 <210> SEQ ID NO: 9  
243 <211> LENGTH: 47  
244 <212> TYPE: DNA  
245 <213> ORGANISM: Artificial sequence  
247 <220> FEATURE:  
248 <223> OTHER INFORMATION: description artificial sequence: artificial  
250 <400> SEQUENCE: 9  
251 catggctcaa gccaaacaca aacagcggaa acgcgctcgt aaacgtc 47  
253 <210> SEQ ID NO: 10  
254 <211> LENGTH: 47  
255 <212> TYPE: DNA  
256 <213> ORGANISM: Artificial sequence  
258 <220> FEATURE:  
259 <223> OTHER INFORMATION: description artificial sequence: artificial  
261 <400> SEQUENCE: 10  
262 ttaagacgtt tacgagcgcg tttccgctgt ttgtgtttgg cttgagc 47  
264 <210> SEQ ID NO: 11  
265 <211> LENGTH: 59  
266 <212> TYPE: DNA  
267 <213> ORGANISM: Artificial sequence  
269 <220> FEATURE:

## RAW SEQUENCE LISTING

DATE: 12/17/2001

PATENT APPLICATION: US/09/913,467

TIME: 15:01:26

Input Set : A:\PA31187US sequence listing.txt

Output Set: N:\CRF3\12172001\I913467.raw

270 &lt;223&gt; OTHER INFORMATION: description artificial sequence: artificial

272 &lt;400&gt; SEQUENCE: 11

273 catggctcaa gccaaacaca aacagcggaa acgcgctaag cataagcaac gtaagcgtc 59

275 &lt;210&gt; SEQ ID NO: 12

276 &lt;211&gt; LENGTH: 59

277 &lt;212&gt; TYPE: DNA

278 &lt;213&gt; ORGANISM: Artificial sequence

280 &lt;220&gt; FEATURE:

281 &lt;223&gt; OTHER INFORMATION: description artificial sequence: artificial

W--&gt; 282 &lt;400&gt; SEQUENCE: 12

283 ttaagacgct tacgttgctt atgcttagcg cgtttccgct gtttggtgtt ggcttgagc 59

## VERIFICATION SUMMARY

DATE: 12/17/2001

PATENT APPLICATION: US/09/913,467

TIME: 15:01:27

Input Set : A:\PA31187US sequence listing.txt

Output Set: N:\CRF3\12172001\I913467.raw

L:61 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1

L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2

L:282 M:283 W: Missing Blank Line separator, &lt;400&gt; field identifier